Trend Task: **Number Patterns**

Approach:	Independent	Year:	4 & 8
Focus:	Assessing numbers in sequence		
Resources:	Answer booklet		

NEMP Access Task

Questions / instructions:

| | % response 2005 ('01) | |
| | **year 4** | **year 8** |

In this activity you are going to complete some number patterns.

Here is an example:

2, 4, 6, 8, ☐ , ☐ .

The next two numbers are 10 and 12 .

The numbers are getting larger by 2.

Write down the missing numbers in each of these patterns:

1. 1, 4, 7, 10, ☐ , ☐ .

	year 4	year 8
13 and 16: both correct	68 (62)	95 (91)
one correct in the right place	5 (6)	2 (3)

2. ☐ , ☐ , 4, 8, 16, 32.

	year 4	year 8
1 and 2: both correct	25 (22)	73 (67)
one correct in the right place	21 (27)	12 (12)

3. 2, 3, 5, 8, 12, 17, ☐ , ☐ .

	year 4	year 8
23 and 30: both correct	22 (21)	68 (61)
one correct in the right place	5 (6)	7 (7)

4. ☐ , ☐ , 13, 10, 7, 4, 1.

	year 4	year 8
19 and 16: both correct	44 (44)	85 (78)
one correct in the right place	5 (5)	3 (4)

5. 2, 3, 6, 11, 18, 27, ☐ , ☐ .

	year 4	year 8
38 and 51: both correct	6 (3)	35 (32)
one correct in the right place	4 (6)	14 (15)

Total score:	year 4	year 8
10	3 (2)	27 (23)
8–9	7 (8)	34 (32)
6–7	18 (16)	22 (19)
4–5	21 (21)	8 (13)
2–3	28 (31)	7 (10)
0–1	22 (23)	1 (4)

Commentary:

Year 8 students were able to detect all but the most difficult patterns. Many year 4 students had trouble with all but the simplest patterns. There was moderate growth seen between 2001 and 2005 at year 8 level but not at year 4 level.